

SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR,
HGPRBM27

<130> D0134.NP

<150> US 60/273,808

<151> 2001-03-07

<150> US 60/278,983

<151> 2001-03-27

<160> 75

<170> PatentIn version 3.0

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gttcatccg gctccagggt tggcctctcc aaaaggcagg cggttttaa acgggttcca      240
acagaaagga cctcccttgg tctcctcaat tctggtctgg agttctctt ctggtttgt      300
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gctgctctgc acccggacac ttgctctgtc cccgcc  atg tac aac ggg tgc tgc      474
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Cys Arg Ile Glu Gly Asp Thr Ile Ser Gln Val Met Pro Pro Leu Leu
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Ile Val Ala Phe Val Leu Gly Ala Leu Gly Asn Gly Val Ala Leu Cys
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ccc tgc cga gtg ggg ctc ttc acg ttg gcc atg aac agg gcc ggg agc Pro Cys Arg Val Gly Leu Phe Thr Leu Ala Met Asn Arg Ala Gly Ser 90 95 100			762
atc gtg ttc ctt acg gtg gtg gct gac agg tat ttc aaa gtg gtc Ile Val Phe Leu Thr Val Val Ala Ala Asp Arg Tyr Phe Lys Val Val 105 110 115			810
cac ccc cac cac gcg gtg aac act atc tcc acc cgg gtg gcg gct ggc His Pro His His Ala Val Asn Thr Ile Ser Thr Thr Val Ala Ala Gly 120 125 130			858
atc gtc tgc acc ctg tgg gcc ctg gtc atc ctg gga aca gtg tat ctt Ile Val Cys Thr Leu Trp Ala Leu Val Ile Leu Gly Thr Val Tyr Leu 135 140 145 150			906
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280 285 290	
tgc agt ctg aaa ccc aag cag cca gga cac tca aaa aca caa agg ccg	1386
Cys Ser Leu Lys Pro Lys Gln Pro Gly His Ser Lys Thr Gln Arg Pro	
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gaa gag atg cca att tcg aac ctc ggt cgc agg agt tgc atc agt gtg	1434
Glu Glu Met Pro Ile Ser Asn Leu Gly Arg Arg Ser Cys Ile Ser Val	
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Ala Lys Val Ser Lys Ala Ser Leu Met Gly Asn Gly Ile Pro Thr Cys	
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 <213> homo sapiens

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Asn Gly Val Ala Leu Cys Gly Phe Cys Phe His Met Lys Thr Trp Lys
 35 40 45

Pro Ser Thr Val Tyr Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu
 50 55 60

Met Ile Cys Leu Pro Phe Arg Thr Asp Tyr Tyr Leu Arg Arg Arg His
 65 70 75 80

Trp Ala Phe Gly Asp Ile Pro Cys Arg Val Gly Leu Phe Thr Leu Ala
 85 90 95

Met Asn Arg Ala Gly Ser Ile Val Phe Leu Thr Val Val Ala Ala Asp
 100 105 110

Arg Tyr Phe Lys Val Val His Pro His His Ala Val Asn Thr Ile Ser
 115 120 125

Thr Arg Val Ala Ala Gly Ile Val Cys Thr Leu Trp Ala Leu Val Ile
 130 135 140

Leu Gly Thr Val Tyr Leu Leu Leu Glu Asn His Leu Cys Val Gln Glu
 145 150 155 160

Thr Ala Val Ser Cys Glu Ser Phe Ile Met Glu Ser Ala Asn Gly Trp
 165 170 175

His Asp Ile Met Phe Gln Leu Glu Phe Phe Met Pro Leu Gly Ile Ile
 180 185 190

Leu Phe Cys Ser Phe Lys Ile Val Trp Ser Leu Arg Arg Arg Gln Gln
 195 200 205

Leu Ala Arg Gln Ala Arg Met Lys Lys Ala Thr Arg Phe Ile Met Val
210 215 220

Val Ala Ile Val Phe Ile Thr Cys Tyr Leu Pro Ser Val Ser Ala Arg
225 230 235 240

Leu Tyr Phe Leu Trp Thr Val Pro Ser Ser Ala Cys Asp Pro Ser Val
245 250 255

His Gly Ala Leu His Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
260 265 270

Leu Asp Pro Leu Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Lys Phe
275 280 285

Tyr Asn Lys Leu Lys Ile Cys Ser Leu Lys Pro Lys Gln Pro Gly His
290 295 300

Ser Lys Thr Gln Arg Pro Glu Glu Met Pro Ile Ser Asn Leu Gly Arg
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Asn Gly Ile Pro Thr Cys
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<213> GALLUS GALLUS

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Leu Thr Lys Thr Gly Phe Gln Phe Tyr Tyr Leu Pro Thr Val Tyr Ile
35 40 45

Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met
50 55 60

Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe

65	70	75	80
Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro,Ala Leu	85	90	95
Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met	100	105	110
Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile	115	120	125
Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His	130	135	140
Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val	145	150	155
Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu	165	170	175
Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr	180	185	190
Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met	195	200	205
Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly	210	215	220
Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn	225	230	235
Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr	245	250	255
Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn	260	265	270
Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn	275	280	285
Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu	290	295	300
Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe	305	310	315
Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu	325	330	335
Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr	340	345	350
Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu	355	360	

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Leu	Thr	Lys 35	Thr	Gly	Phe	Gln	Phe 40	Tyr	Tyr	Leu	Pro	Thr 45	Val	Tyr	Ile
Leu	Val 50	Phe	Ile	Thr	Gly 55	Phe	Leu	Gly	Asn	Ser	Val 60	Ala	Ile	Trp	Met
Phe 65	Val	Phe	His	Met	Arg 70	Pro	Trp	Ser	Gly	Ile 75	Ser	Val	Tyr	Met	Phe 80
Asn	Leu	Ala	Leu	Ala 85	Asp	Phe	Leu	Tyr	Val 90	Leu	Thr	Leu	Pro	Ala 95	Leu
Ile	Phe	Tyr	Tyr 100	Phe	Asn	Lys	Thr	Asp 105	Trp	Ile	Phe	Gly	Asp 110	Val	Met
Cys	Lys	Leu 115	Gln	Arg	Phe	Ile	Phe 120	His	Val	Asn	Leu	Tyr 125	Gly	Ser	Ile
Leu	Phe 130	Leu	Thr	Cys	Ile	Ser 135	Val	His	Arg	Tyr	Thr 140	Gly	Val	Val	His
Pro 145	Leu	Lys	Ser	Leu	Gly 150	Arg	Leu	Lys	Lys 155	Lys	Asn	Ala	Val	Tyr	Val 160
Ser	Ser	Leu	Val	Trp 165	Ala	Leu	Val	Val	Ala 170	Val	Ile	Ala	Pro	Ile 175	Leu
Phe	Tyr	Ser 180	Gly	Thr	Gly	Val	Arg	Asn 185	Lys	Thr	Ile	Thr 190	Cys	Tyr	
Asp	Thr	Thr 195	Ala	Asp	Glu	Tyr	Leu 200	Arg	Ser	Tyr	Phe 205	Val	Tyr	Ser	Met
Cys	Thr 210	Thr	Val	Phe	Met	Phe 215	Cys	Ile	Pro	Phe	Ile 220	Val	Ile	Leu	Gly
Cys 225	Tyr	Gly	Leu	Ile	Val 230	Lys	Ala	Leu	Ile	Tyr 235	Lys	Asp	Leu	Asp 240	
Ser	Pro	Leu	Arg	Arg 245	Lys	Ser	Ile	Tyr	Leu 250	Val	Ile	Ile	Val	Leu 255	Thr
Val	Phe	Ala 260	Val	Ser	Tyr	Leu	Pro	Phe 265	His	Val	Met	Lys	Thr 270	Leu	Asn

Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn
275 280 285

Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu
290 295 300

Asn Ser Cys Val Asp Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe
305 310 315 320

Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
325 330 335

Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr
340 345 350

Glu Tyr Lys Gln Asn Gly Asp Thr Ser Leu
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<210> 5

<211> 373

<212> PRT

<213> BOS TAURUS

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Thr Ala Ala Val Ala Ser Pro Phe Lys Cys Ala Leu Thr Lys Thr Gly
35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
50 55 60

Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala
85 90 95

Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Ala Met Cys Lys Leu Gln Arg
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys
130 135 140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
145 150 155 160

Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Ile Ser Val Leu Val Trp
165 170 175

Leu Ile Val Val Val Gly Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
 180 185 190
 Gly Ile Arg Lys Asn Lys Thr Ile Thr Cys Tyr Asp Thr Thr Ser Asp
 195 200 205
 Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
 210 215 220
 Met Phe Cys Val Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile
 225 230 235 240
 Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg
 245 250 255
 Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser
 260 265 270
 Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu
 275 280 285
 Asp Phe Gln Thr Pro Glu Met Cys Ala Phe Asn Asp Arg Val Tyr Ala
 290 295 300
 Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp
 305 310 315 320
 Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser
 325 330 335
 Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser
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 Gly Asp Thr Ser Leu
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 Thr Ala Ala Val Ser Ser Ser Phe Lys Cys Ala Leu Thr Lys Thr Gly
 35 40 45
 Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile

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Gly 65	Phe	Leu	Gly	Asn 70	Ser	Val	Ala	Ile	Trp	Met 75	Phe	Val	Phe	His	Met 80
Lys	Pro	Trp	Ser 85	Gly	Ile	Ser	Val	Tyr	Met 90	Phe	Asn	Leu	Ala	Leu	Ala 95
Asp	Phe	Leu	Tyr 100	Val	Leu	Thr	Leu	Pro	Ala 105	Leu	Ile	Phe	Tyr	Tyr	Phe 110
Asn	Lys	Thr	Asp 115	Trp	Ile	Phe	Gly	Asp	Ala 120	Met	Cys	Lys	Leu	Gln	Arg 125
Phe	Ile	Phe	His	Val	Asn 130	Leu	Tyr	Gly	Ser 135	Ile	Leu	Phe	Leu	Thr	Cys 140
Ile	Ser	Ala	His	Arg	Tyr 145	Ser	Gly	Val	Val 150	Tyr	Pro	Leu	Lys	Ser	Leu 160
Gly	Arg	Leu	Lys 165	Lys	Lys	Asn	Ala	Ile	Cys 170	Ile	Ser	Val	Leu	Val	Trp 175
Leu	Ile	Val	Val 180	Val	Ala	Ile	Ser	Pro	Ile 185	Leu	Phe	Tyr	Ser	Gly	Thr 190
Gly	Val	Arg	Lys 195	Asn	Lys	Thr	Ile	Thr	Cys 200	Tyr	Asp	Thr	Thr	Ser	Asp 205
Glu	Tyr	Leu	Arg	Ser	Tyr 210	Phe	Ile	Tyr	Ser 215	Met	Cys	Thr	Thr	Val	Ala 220
Met	Phe	Cys	Val	Pro	Leu 225	Val	Leu	Ile	Leu 230	Gly	Cys	Tyr	Gly	Leu	Ile 235
Val	Arg	Ala	Leu	Ile	Tyr 245	Lys	Asp	Leu	Asp 250	Asn	Ser	Pro	Leu	Arg	Arg 255
Lys	Ser	Ile	Tyr 260	Leu	Val	Ile	Ile	Val	Leu 265	Thr	Val	Phe	Ala	Val	Ser 270
Tyr	Ile	Pro	Phe	His	Val 275	Met	Lys	Thr	Met 280	Asn	Leu	Arg	Ala	Arg	Leu 285
Asp	Phe	Gln	Thr	Pro	Ala 290	Met	Cys	Ala	Phe 295	Asn	Asp	Arg	Val	Tyr	Ala 300
Thr	Tyr	Gln	Val	Thr	Arg 305	Gly	Leu	Ala	Ser 310	Leu	Asn	Ser	Cys	Val	Asp 315
Pro	Ile	Leu	Tyr	Phe	Leu 325	Ala	Gly	Asp	Thr 330	Phe	Arg	Arg	Arg	Leu	Ser 335
Arg	Ala	Thr	Arg	Lys	Ala 340	Ser	Arg	Arg	Ser 345	Glu	Ala	Asn	Leu	Gln	Ser 350
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Thr Ala Ala Val Ser Ser Ser Phe Arg Cys Ala Leu Ile Lys Thr Gly
35 40 45

Phe Gln Phe Tyr Tyr Leu Pro Ala Val Tyr Ile Leu Val Phe Ile Ile
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Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met Phe Val Phe His Met
65 70 75 80

Lys Pro Trp Ser Gly Ile Ser Val Tyr Met Phe Asn Leu Ala Leu Ala
85 90 95

Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu Ile Phe Tyr Tyr Phe
100 105 110

Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met Cys Lys Leu Gln Arg
115 120 125

Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile Leu Phe Leu Thr Cys
130 135 140

Ile Ser Ala His Arg Tyr Ser Gly Val Val Tyr Pro Leu Lys Ser Leu
145 150 155 160

Gly Arg Leu Lys Lys Lys Asn Ala Ile Tyr Val Ser Val Leu Val Trp
165 170 175

Leu Ile Val Val Val Ala Ile Ser Pro Ile Leu Phe Tyr Ser Gly Thr
180 185 190

Gly Ile Arg Lys Asn Lys Thr Val Thr Cys Tyr Asp Ser Thr Ser Asp
195 200 205

Glu Tyr Leu Arg Ser Tyr Phe Ile Tyr Ser Met Cys Thr Thr Val Ala
210 215 220

Met Phe Cys Ile Pro Leu Val Leu Ile Leu Gly Cys Tyr Gly Leu Ile
225 230 235 240

Val Arg Ala Leu Ile Tyr Lys Asp Leu Asp Asn Ser Pro Leu Arg Arg
245 250 255

Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr Val Phe Ala Val Ser
260 265 270

Tyr Ile Pro Phe His Val Met Lys Thr Met Asn Leu Arg Ala Arg Leu
275 280 285

Asp Phe Gln Thr Pro Glu Met Cys Asp Phe Asn Asp Arg Val Tyr Ala
290 295 300

Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu Asn Ser Cys Val Asp
305 310 315 320

Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe Arg Arg Arg Leu Ser
325 330 335

Arg Ala Thr Arg Lys Ala Ser Arg Arg Ser Glu Ala Asn Leu Gln Ser
340 345 350

Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Ser Glu Phe Lys Gln Asn
355 360 365

Gly Asp Thr Ser Leu
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<210> 8

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<212> PRT

<213> HOMO SAPIENS

<400> 8

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35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
65 70 75 80

Pro Phe Val Met Asp Tyr Tyr Val Arg Arg Ser Asp Trp Asn Phe Gly
85 90 95

Asp Ile Pro Cys Arg Leu Val Leu Phe Met Phe Ala Met Asn Arg Gln
100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Trp Thr Ala
 130 135 140
 Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Val Gly Leu Thr Val
 145 150 155 160
 His Leu Leu Lys Lys Lys Leu Leu Ile Gln Asn Gly Pro Ala Asn Val
 165 170 175
 Cys Ile Ser Phe Ser Ile Cys His Thr Phe Arg Trp His Glu Ala Met
 180 185 190
 Phe Leu Leu Glu Phe Leu Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
 195 200 205
 Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
 210 215 220
 Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
 225 230 235 240
 Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
 245 250 255
 Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val
 260 265 270
 Asp Leu Ala Phe Phe Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
 275 280 285
 Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
 290 295 300
 Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu
 305 310 315 320
 Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
 325 330 335
 Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro
 340 345 350
 Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Asn Asn His Ser Lys Lys
 355 360 365
 Gly His Cys His Gln Glu Pro Ala Ser Leu Glu Lys Gln Leu Gly Cys
 370 375 380
 Cys Ile Glu
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<400> 9

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Ala Val Ala Leu Trp Thr Phe Leu Phe Arg Val Arg Val Trp Lys Pro
      35           40           45

Tyr Ala Val Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Leu Ala
 50           55           60

Ala Cys Leu Pro Phe Leu Ala Ala Phe Tyr Leu Ser Leu Gln Ala Trp
 65           70           75           80

His Leu Gly Arg Val Gly Cys Trp Ala Leu Arg Phe Leu Leu Asp Leu
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Arg Cys His Ser Phe Tyr Ser Arg Ala Asp Gly Ser Phe Ser Ile Ile
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Leu Cys Ala Val Ala His Thr Ser Asp Val Thr Gly Ser Leu Thr Tyr
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